

PRODUCT TECHNICAL STATEMENT

Silverzone Reflective Foil Insulation

Fire Retardant, Double Sided Foil Separated by a Layer of Air

Silverzone is a reflective foil with twin layers of aluminium separated by a layer of air. The foil reflects 97% of heat and deflects the external cold temperature while the layer of bubble keeps these surfaces separated. It is an extremely effective insulation. Silverzone has a special coating on its aluminium surfaces to stop oxidization and comes with a 15-year manufacturer's warranty. The scrim reinforcing makes it a lot stronger than traditional building foils.

Silverzone is ideal for use as an insulation product fits to the underside of the roof of commercial sheds and buildings.

FEATURES:

- Fire retardant
- Water and vapour barrier
- Extra R value with the reflective foil both sides (97% reflectivity)
- Superior strength, stiffness, and durability

- Acts as a barrier to radiant heat, moisture ingress, drafts, and dust penetration.

APPLICATION

Silverzone is designed for use on a roof and roof sarking in commercial, industrial and farm buildings in all regions of New Zealand. Durability may be affected by environmental factors, including airborne pollutants. Where Silverzone is used for new construction or in connection with a building consent the work should be undertaken or supervised by a Licensed Building Practitioner (LBP).

COMPLIANCE

Silverzone meets the requirements of the NZBC Clauses B2, Durability (B2.3.1[b] 15 years), E2 External Moisture E2.3.2, F2 Hazardous Building Materials F2.3.1.

1	Total Weight (nominal)		255 g/m ²
2	Nominal Thickness (mm)		8
3	Edge Tear Resistance	AS/NZS 4201.1-2017	Extra Heavy Duty
4	Tensile Strength	AS 1301.448s-2019	Medium Duty
5	Pliable Building Membranes - Shrinkage	AS/NZS 4200.3	<0.5%
6	Flammability Index	AS1530.2-1993	Low (FR Index: 5)
7	Roll size		1200mm x 30m (36sq)
8	Emittance	ASTM 408	≤0.03
9	Resistance to Water Penetration		Water Barrier
10	Vapour Control Membrane	ASTM E96 Method A	Vapour Barrier (Class 1)
11	Surface Resistance	As/NZS 3100	Electrically Conductive
12	Resistance to Dry Delamination	AS/NZS 4201.1	Pass
13	Resistance to Wet Delamination	AS/NZS 4201.2	Pass
14	Durability	B2.3.1 (b)	15 Years

CONDITIONS & LIMITATIONS

- Silverzone is not designed to withstand prolonged direct exposure to the elements.
- The outer construction envelope of this product is recommended to be installed the same day as the metal roof.
- If installed within 500 metres of the sea where foil surfaces may be exposed to a corrosive atmosphere (including agricultural sheds), foil surfaces should face an enclosed, un-vented air space.

- To ensure optimal thermal insulation performance, as well as satisfactory durability, a min 25mm air space adjacent to the foil side of the product is recommended.
- If exposed to dusts for a prolonged period, stains can result on white face.

DESIGN/ SPECIFICATION GUIDE

The rate and amount of evaporation of condensate will depend on many factors, one of the most dominant being

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ventilation. To manage condensation in cold or humid climates, with skillion or low-pitched roofs or wherever condensation can be an issue, please refer to MRM Code of Practice for more information.

STORAGE & TRANSPORTATION

This product should be stored under cover in a clean, dry place in the pack provided.

For further information please visit www.drinspace.co.nz or call **0800 DRISTUD (374 7883)**.

INSTALLATION

1. Silverzone 7 should be installed in accordance with AS/NZS 4200.2 Installation and Silverzone Installation Guide.
2. The outer construction envelope of this product is recommended to be installed the same day as the metal roof.
3. It shall be supported by safety mesh or other continuous support where available.

ROOF INSTALLATION

1. May be installed vertically or horizontally starting from gutter. Make sure upper sheets lap over lower sheets by no less than 150mm. 150mm lap lines are printed for ease of installation.
2. Where installed under metal cladding an air gap of 25mm is required between absorbent roof underlay and foil or between bulk insulation/foil and roof underlay.
Where installed as a thermal control membrane, it should be installed with an air gap either (a) as calculated in accordance with AS/NZS 4859.1; or (b) not less than 20mm. Refer to AS 4200.2:2017
3. Where installed as a vapour or air barrier, it shall be continuously sealed at all discontinuities, end laps, joints and penetrations, by DriStud Joining Tape, DriStud Cool window flashing tape, or mechanical fixing with adhesive sealant or adhesive bond.

WARRANTY

TCL Hunt Ltd warrants that Silverzone will be free from manufacturing defects. Upon receiving Silverzone, it is recommended that a visual check is made. Where defects are observed, the product will be replaced at the discretion of TCL Hunt, provided that they are returned to point of purchase. DriStud W7 products are guaranteed for use in walls and under metal roofs for a period of 15 years, provided that: 1) The product is installed in accordance with the relevant NZ Standards and our installation instructions; and 2) If installed within 500 metres of the sea, or in a non-residential building where the product may be exposed to corrosive substances, the product is contained in an enclosed, un-vented air space.